THE TECH

VOL. XXVII. No. 60 BOSTON, MASS., FRIDAY, MARCH 20, 1908 PRICE THREE CENTS

RECOMMENDS LOWER TELEPHONE TOLLS.

PROF. JACKSON ASKS REDUCTION.

Greater Boston Rate Should be Reduced One Half.

Professor Dugald C. Jackson, acting as expert for the Massachusetts Highway Commission delivered a report Wednesday in answer to certain specific questions in relation to the New England Telephone and Telegraph Company. This report is a preliminary survey preparatory to a thorough investigation into the company's property and workings.

Professor Jackson was appointed in January to the position of expert for the commission and has since been in consultation with the commission, the company and others interested in telephone matters in the state. His work in connection with the Chicago telephone situation has placed Prof. Jackson among the leaders in expert work on telephone companies.

In his report on the New England Company, among other things he recommends a properly planned and executed inventory and appraisal of the property of the company, the property being divided into the natural operating divisions for such an appraisal, a careful districting of the commonwealth for the appraisal, the company bearing the brunt of such appraisal under direction the highway commission engineers. For the purpose of appraisal Prof. Jackson recommends that the commission have at its disposal $30,000.

To those living in the metropolitan district Prof. Jackson's recommendation in regard to toll rates is most interesting. He asks for a preliminary adjustment of the Boston and suburban toll rates, a reduction in all exchanges within a radius of five miles from the center of gravity of the metropolitan district, from 10 cents to 5 cents for each conversation of five minutes' length.

This change in toll rates will affect the Charlestown, East Boston, South Boston, Cambridge, Chelsea, Roxbury, Somerville, Brookline, Everett, Dorchester, Revere, Winthrop, Jamaica Plain, Brighton, Malden and Medford exchanges.

Professor Jackson also recommends a change of the "multi-party" line to a two-party service, and for the six-party and eight-party this should be done at the earliest practicable date.

The report as a whole goes minutely into the difficulties encountered in attempting to fix telephone rates in large cities.

CONCRETE CONSTRUCTION CHEAPER.

Wason Tells Civils of New Process.

L. C. Wason spoke to the Civil Engineering Society Wednesday afternoon on "Reinforced Concrete," explaining some of the practical considerations involved in economical reinforced concrete construction that are not to be found in text-books.

Practice as well as theory is necessary to make concrete useful in building. Mr. Wason gave several instances in which theory is laid aside because of expense. In order to save the expense of setting up new forms, it is customary in a tall building to use the same size columns for several stories in succession instead of reducing them in proportion to the load to be carried. He cited Mr. Edison's concrete house as an example of a sound theoretical but very impracticable and expensive scheme for building concrete houses.

In Boston the building laws requires so large a factor of safety that concrete is too expensive for use in buildings. The effect of fire on concrete is so slight that an allowance of two inches in dimensions is sufficient to offset it. The shrinkage in setting is always so much greater than any subsequent expansion that the latter need not be considered. In genaral reinforced concrete buildings are 10 per cent. cheaper than combination of wood and brick, because of reduced cost of carpentering and forms.

MOST SURPRISING RETURNS IN ELECTIONS FOR SENIOR CLASS DAY COMMITTEE

LARGEST PERCENTAGE VOTE EVER POLLED BY 1908.

Gerrish, Boylston and Williams the Leaders. Many Well Known Men Shut Out. Course Representation Cry Little Heeded. Committee Meets Today.

1908 CLASS DAY COMMITTEE

Herbert Thurston Gerrish
Clifford Hall Boylston
Edgar Irving Williams

Winthrop Drew Ford	Thomas Whitley Orr
Francis Harrington McGuigan	William Joseph Pierce
John Theodore Tobin	Joseph Pope
Langdon Coffin	Harold Smith Osborne
Henry Washington Blackburn	Raymond Edward Drake
George Thummel Glover	Bernard Shepard Leslie
Leslie Burton Ellis	Joseph Gilman Reid
Samuel Harries Daddow	Leavitt Weare Thurlow
Lafayette Boyd Hedge	Harry Webb
Maurice Everett Allen	Charles Alphonsus Gibbons Jr
Kurt Vonnegut	Horace Ethan Allen

Harry Andrew Rapelye, ex-officio

Surprising indeed were the results of the Class Day Committee elections as announced late last evening. Herbert T. Gerrish ran well ahead of the ticket with 150 votes out of the total poll of 188. Clifford H. Boylston came second with 133, and Edgar I. Williams came a close third with 131 votes. From this point the vote drops off sharply, as can be seen in the following summary:

Name	Course	Votes
H. T. Gerrish	I	150
C. H. Boylston	I	133
E. I. Williams	IV	131
W. D. Ford	II	122
F. H. McGuigan	I	108
J. T. Tobin	I	107
L. Collin	II	107
H. W. Blackburn	II	99
G. T. Glover	II	99
L. B. Ellis	I	94
S. H. Daddow	II	89
L. B. Hedge	VI	88
M. E. Allen	I	85
K. Vonnegut	IV	84
T. W. Orr	I	83
W. J. Pierce	II	83
J. Pope	XIII	83
H. S. Osborne	VI	82
R. E. Drake	V	78
B. S. Leslie	II	78
J. G. Reid	VI	76
L. W. Thurlow	X	73
H. Webb	III	71
C. A. Gibbons, Jr.	III	70
H. E. Allen	II	69

From the summary it can be noticed that the cry for course representation was little heeded, the men being evidently picked for what they were worth and what they had done. Course II leads with eight members of the committee, with Course I coming a second with seven. Course VI has three representatives on the committee; there are two each from Courses III and IV, while Courses V, X and XIII each have one member of the committee.

The recent political eruption in the class seemed to have little effect on the voting. While a number of the men named on the "course representation" ticket were elected; in general this ticket does not seem to have been followed. The men from this ticket who were elected would have undoubtedly been elected in any case, their vote being probably enlarged through a publicity of the ticket.

Seldom has there been such great interest in class elections in the 1908 class. The percentage poll for numbers of the eligible vote is the highest in the history of the class, 188 voting out of the possible 231. It took the ballot committee, L. B. Hedge, L. Collin and J. Pope together with M. E. Allen, four hours to tabulate the results of this big vote.

The work of counting necessitated careful work on account of the closeness of the vote in several cases. B. L. Gimson stood 26th in the vote, only two behind H. E. Allen with 67.

Those receiving over 22 votes follow: J. S. Barnes and D. Bowman, 64; J. S. Coye, 63; W. E. Barton and Harry S. Chandler, 62; R. W. Ferris, 60; W. R. Heilman, 59; R. J. Batchelder, 57; F. J. Friedman, 55; A. G. Place, 50; H. R. Callaway, 47; J. C. Brooks, 36; P. R. Fanning, 32; W. F. Dolke, 31; H. F. Richardson, 29; G. Schobinger, 29; H. C. Elton, 28; A. A. Longey, 28; H. W. Dun, Jr., 28; A. W. Heath, 27; J. L. B. Larned, 26; C. D. Putnam, 25; E. R. Hall, 25; Franklin T. Towle, 24; P. J. Hale, 22.

There was no rule passed by the class, nor is it in the constitution that the first three men in the class day committee vote are to be the three marshals. In the past, however, it has been the custom to elect the three highest men to these offices.

An exceptional case was that of 1907 when J. H. Leavell was elected first marshal from without the committee, he not running on the ballot. He was elected by a unanimous vote of the Class Day committee, a special rule being made in this case. If he had been on the ticket he would have undoubtedly stood high man.

Therefore, in the face of the heavy returns for the first three men, the Class Day committee, which has the power to elect the three marshals, will undoubtedly select Gerrish, Boylston and Williams as the marshals in the order named.

There will be a meeting of the committee this afternoon in 22 Rogers at 5.00 P. M. It is important that every member be present. Vice-President John S. Barnes, in the absence of President Rapelye, will start the meeting as temporary chairman. The work of the committee and the sub-committee will start at once.

STUDY ROOMS FURNISHED.

In order to afford quiet places for study during unoccupied hours, recitation rooms in Rogers, Walker, Eng. A, and Lowell have been opened for study when not in use for recitations. Schedules of these rooms have been posted on the general bulletin boards in the respective buildings. It is at the request of President Noyes that these rooms have been set aside for study.

MUSICAL CLUBS AT WAVERLEY.

Wednesday evening, the Musical Clubs gave a concert at Waverly. From a musical point of view the performance was not as successful as some this year, but socially it was fully up to standard. Prof. Merrill of the Institute was on the reception committee at Waverly. Refreshments were served after the concert.

PROJECTED HARE AND HOUNDS ASSOCIATION.

CONSTITUTION DRAWN UP.

Excellent Plans Outlined by the Cross Country Captain.

(BY RISDALE ELLIS.)

The control and financing of the Cross Country team by the Athletic Association necessitates the radical reorganization of the Cross Country Association. This institution had by its constitution, the right to elect the manager and to exercise entire control over the team.

Now the election of the manager should of course lie with those who pay the team's expenses, that is, with the M. I. T. A. A. In fact, the Cross Country team as a whole should come, directly or indirectly, under the control of the Advisory Council, who award insignia and support the team financially.

However, the interests of cross country running demand a distinct organization. This organization would deal exclusively with the Hare and Hounds chases as everything else must necessarily come under the Athletic Association. This being so, the best plan seemed to be to form a Hare and Hounds Club.

Such a club was founded as far back as 1896, and had a successful career for

(Continued on page 3.)

OUTDOOR TRACK WILL START IN SATURDAY.

SQUAD PICTURE TODAY.

Men in all Events Will Start at Field Tommorrow.

Outdoor work will start in earnest tomorrow at the Field at 3.00 P. M. Every man who has even done any track or cross country work or even expects to is wanted at that time. Coach Kanaly is anxious to have all the men show up at that time. Training must begin at once in order that the team may be in shape for the class games and the dual track meets that are to come off early in the spring.

The picture of the track squad will be taken today in uniform at Notman's on Boylston Street. All the members of the squad are expected to be there. The following men especially are invited: W. D. Allen, M. E. Allen, F. F. Bell, H. W. Blackburn, L. C. Cooley, H. L. Clark, C. S. Clapp, F. C. Dolke, Davis, R. Ellis, C. P. Eldred, H. R. Elwell, K. D. Fernstrom, C. W. Gram, C. E. Greene, A. A. Gould, R. H. Gould, L. G. Glazier, P. Hart, W. B. Hargraves, B. C. Huber, H. H. Howland, H. G. Jenks, F. M. Heidelberg, C. P. Kerr, A. R. Knipp, H. Lockett, L. A. Loomis, L. O. Mills, W. T. MacCreadie, J. F. McCarthy, J. D. Mackenzie, G. H. Magee, J. L. McAllen, S. M. Niles, R. A. D. Preston, H. I. Pearl, F. D. Stewart, E. Stuart, W. J. Seligman, W. C. Salisbury, D. R. Stevens, Smith, J. B. Walcott, C. W. West, W. W. Warner, W. O. Whitney, P. D. White, G. B. Wilbur, M. R. Scharff, J. Schaaf, K. R. Faunce, J. H. Ruckman, G. M. Gilkison, M. Flagg, L. D. Nisbet, W. Morrison, R. H. Nichols, F. A. Burton, F. Moore, F. J. Friedman, B. L. Gimson, H. R. Callaway, C. L. Batchelder, J. N. Stephenson, E. S. Hanna, H. A. Rapelye, R. C. Albro, H. J. Ruggles, R. H. Allen, G. Schobinger, A. L. Moses, Captain T. W. Orr, Manager D. C. McMurtrie, and Coach F. M. Kanaly.

Among the men who worked at the Gym yesterday were L. O. Mills 1910, W. C. Salisbury 1911, J. R. Ruckman 1909, J. D. Mackenzie 1911, R. Ellis 1909, K. D. Fernstrom 1910, G. H. Magee 1910, F. C. Dolke 1911, Y. W. Orr 1908, H. Lockett 1910, W. J. Seligman 1911, P. D. White 1911, R. A. D. Preston 1910, W. D. Allen 1911, F. F. Bell 1910, C. S. Clapp 1908, A. A. Gould 1910, R. H. Gould 1911, L. G. Glazier 1911, P. Hart 1910.

THE TECH

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Friday, March 20, 1908.

The Tech regrets to announce the resignation of William R. McCune 1911 from the business staff.

A GOOD SCHEME.

The recent notice on the general bulletin board marks an innovation which will be welcomed by anyone who has been through the discouraging experience of having a spare hour in which to prepare for a recitation and then being unable to find a place to study. At times the libraries have been crowded to the limit and a man's unoccupied hours in the middle of the morning are apt to mean just so much wasted time. There was not even a place to rest.

Under the new arrangement, during unoccupied hours, recitation rooms are opened up to students and both time and space are utilized that were hitherto wasted.

THE LAST CHANCE.

Tomorrow afternoon the seats for Tech Day at the Hippodrome will be transferred from The Tech office to that of the Hippodrome company. After that time the sales will no longer benefit the New Union. So it is to the interest of everyone to boom the sale of tickets today and tomorrow, just as it is to the interest of everyone on April 10 to make things go off with a proper fervor.

There was some strong talk last fall about whether the Course I seniors could or could not beat the Course II seniors at football. The contest, however, was merely one of words. Everyone knows which is the best course at talking, but we have these mental struggles every day. Now comes the time for each course to show its superiority along physical lines. A spirited game of indoor baseball would settle this question and besides entertain the crowd.

Also a snappy tug of war contest between the veterans of the junior and senior classes would help a great deal. It is expected to have some relay races and amateur stunts. In all there is an unlimited field for the display of physical prowess. Cast aside the trammels of scholarship and be men!

A NECESSITY.

In another column appears an article explaining the purpose and the projected plans for a hare and hounds association, and outlining the proposed constitution.

There is no doubt but that the move is a wise one on the part of the cross country authorities. Some definite body is needed to elect the chase captain. The new association would supply this need. An intimate interest in and responsibility for the cross country work is greatly to be desired. The new association would fulfil this office also.

During the past two years a great need has been shown for some stimulation to hare and hounds running, which after all is the basis of the cross country work. The cross country association used to take care of this, and now the hare and hounds association should perform the duties of the other defunct organization.

All that remains now to make the association a thorough success is the unanimous and hearty support of all the men who take the least interest in the hare and hounds running. It will be only fair for them to back it up to the best of their ability.

FRESHMEN ASSESS SELVES.

The freshman class held a class meeting at the Armory, Wednesday afternoon. An assessment of $1.00 was voted in order to pay off the debt of $110.00, involved by the class football team.

NEW METHODS IN CHEMICAL ANALYSIS.

Being Developed by Dr. Spear. Electric Whirlpool the Basis.

Dr. E. B. Spear in the laboratory of physical chemistry is developing rapid methods in qualitative analysis by means of the electric current. The methods he is employing are those of the "electric whirlpool."

The idea is not altogether new and in its old form has been used for many years. In most electrolytic methods in use today, the substance, the quantity of which is to be determined, is caused to deposit on a stationary metal plate. It has been found that if the plate is made to rotate at high speed the deposition takes place much more rapidly.

More recently an electrical arrangement has been devised by which the solution containing the substance can be made to spin around a fixed plate on which the deposition occurs. On this idea yet practically undeveloped, Dr. Spear is working.

The character of the deposit in this "electric whirlpool" seems to be satisfactory; and it is hoped in this way to reduce the time required in certain analysis from twenty-four hours to as many minutes.

After Dr. Spear perfects the methods for pure substances, he will turn to a series of investigations with impure samples and the general methods, if necessary, so modified that they will be generally useful in commercial laboratories.

Capt. Ellis led the cross country squad a mile at a good clip Thursday. The following men ran: C. P. Eldred 1911, G. George 1911, J. A. Bigelow 1911, J. Schaaf 1909, C. S. Clapp 1908, C. L. Batchelder 1909, B. C. Huber 1910. The rest of the cross country men were put on special work at the Gym.

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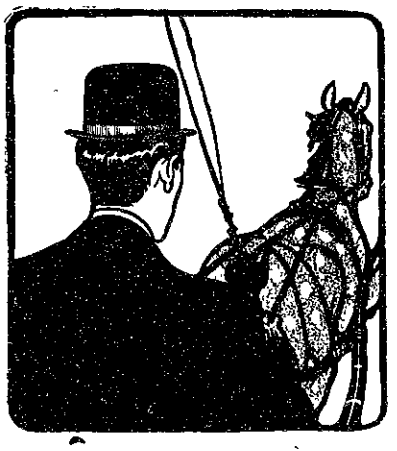

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HARE AND HOUNDS ASSOCIATION.

(Continued from page 1.)

several years. Then to further the interests of the Cross Country team, at that time self-supporting, a merger was made between the latter and the Hare and Hounds Club, which resulted in the present Cross Country Association.

As the team no longer pays its own expenses and is financed and controlled by the Athletic Association, the need for this merger disappears. Since however, the interests of the team and the Hare and Hound Club are much allied, it would seem advisable to make the captain of the team president ex-officio of the club.

The provisional Constitution, on which action will be taken today, is as follows:

Membership—Any student of the Institute may become a member by paying the annual due of 50 cents.

Officers—The officers of the club shall be a president, a chase-captain and an assistant chase-captain.

The president—He shall call and preside over all meetings of the club.

The chase-captain shall have exclusive control of all Hare and Hounds chases. He shall have no authority to organize races where insignia of any sort are given. He shall act as secretary of the club.

The assistant chase-captain shall take the place of the chase-captain in his absence. He shall perform such duties of the chase-captain as the latter may require.

Election of officers—The captain of the Cross Country team shall be the president ex-officio. The chase-captain and the assistant chase-captain shall be elected by members of the club, the election of both officers to take place in February.

FRESHMEN TACKLE SKIRMISHING.

Skirmish drill was taken up by the Freshman battalion last Wednesday afternoon for the first time this year, the period being spent in deploying as skirmishers, rallying, assembling, and attacking.

Since the beginning of the second term the battalion has been taking up very few new movements, most of the time being spent in preparing for the prize drill, which will come some time in May.

PENNSYLVANIA CLUB HOLDS DINNER.

Several Penn. Men from Harvard Present

The Penn Club held a dinner at the Union last night at which 21 men were present. After the dinner officers were nominated as follows: president, S. N. McCain 1909; vice-president, J. S. Pierce 1909; secretary, A. G. Steen 1910, and R. D. Wells 1910, treasurer, R. W. Jacobs; executive committee, W. S. Woods 1909, H. W. Churchill 1910, W. W. Warner 1911. The election of officers will come at the next meeting, May 7.

The members are, beside those above, C. H. Shapleigh, F. W. Dempwolf, R. J. Korch, A. N. Penny, D. B. Myers, F. M. Fuller, C. H. Steese, R. W. G. Wint, S. H. Daddow, J. T. Fallon, M. A. Zook, W. B. Gonder, V. C. Grubnau, L. F. C. Haas, H. N. Harrison, B. D. Johnson, C. M. Roads, D. E. Reiss, N. R. Smith, A. H. Wharf, E. M. Post, L. Lee, F. S. James, W. A. Wengert, A. I. Phillips, Jr., B. R. Fuller, R. W. Frost, N. A. Morris, J. R. Carson.

COACH GIVING LESSONS FREE.

In view of the fact that the fencing team has earned the right to take part in the finals of the intercollegiate tournament at New York and that the Athletic Association has been unable or deemed it inexpedient to assist the team in its coaching, Lucien Fournon has offered to coach the team three lessons a week free. He will continue this until the tournament.

INTEGRITY KEY TO SUCCESS.

Rev. P. R. Frothington of the Arlington St. Church was the speaker at the Y. M. C. A. meeting yesterday on "The Use of Implements in Life." He said that men must take the best tools that offer themselves for their work. In speaking of the influence of money on success in college life, he said that many fellows claim that no one can get along without it and succeed." He continued: "This is not so and the fellow who works with the old-fashioned tools of honesty and integrity wins far greater success. It is not natural brilliancy but working hard that counts."

The Technology Review
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CALENDAR.

Friday, March 20, 1908.

1.00 P. M. Tech Track Team Picture Taken at Notman's.
1.00 P. M. Sophomore Baseball Meeting in 26 Rogers.
4.00 P. M. Tech Show Chorus Rehearses at the Union.
4.15 P. M. Banjo Club Rehearses in 33 Rogers.
4.15 P. M. Candidates for Gym Team Meet at the Gym.

Saturday, March 21, 1908.

2.00 P. M. Tech Show Principals Rehearse at the Union.
3.00 P. M. Track Team Reports at the Field.
3.00 P. M. Cross Country Men Meet at the Field.

Monday, March 23, 1908.

1.00 P. M. Music Clubs Meet in 26 Rogers.
4.00 P. M. Tech Show Chorus Rehearses at the Union.
4.15 P. M. Glee Club Rehearses in Y. M. C. A. Auditorium.
4.15 P. M. Mandolin Club Rehearses in 31 Rogers.

FACULTY NOTICE.

Students who entered the Institute before the present year and who have not clear records in first year mathematics are requested to communicate with me in case they desire to become regular.

On account of the revision of the general mathematical courses now in progress it may be necessary for such students to take more or less of the present first-year course or to prepare for special examinations. It will facilitate arrangements if I can be notified somewhat promptly. H. W. Tyler.

NOTICES.

MUSICAL CLUBS.—Meeting Monday at 1.00 in 26 Rogers.

GYM TEAM.—All candidates for the gym team report at the Gym at 4.15 sharp today. Important practice.

TRACK PICTURE.—Every man who has represented the Institute as a member of track, relay, or cross country team is to show up for a squad picture at Notman's 384 Boylston St. today at 1.00 P. M. Bring track suit.

CROSS COUNTRY.—There will be a run over the last two miles of the course to be covered in the Intercourse race tomorrow. Meet at the Field by 3.00 P. M. Take any Brookline Village car and get off at Pond Ave.

CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

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Men who desire summer work at $2.50 per day, leave note for Woodruff at the Cage. ATTEND TO THIS NOW.

CAMERA FOR SALE.—A Century 4 x 5 camera with unusual good lens, for sale. Exchange for Eastman Folding Kodak will be considered. Address Box 24, the Cage.

FOR SALE.—Technique 1909 has a few subscriptions to the Engineering Record, the Street Railway Journal, and the Electrical World, which will be sold at $2.50 as long as they last. Regular price $3.00.

THE LAST CALL

Sale of Tickets at the Institute for Tech Day at Boston Hippodrome

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